of Beirut

AMERICAN UNIVERSITY OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN : DIRECTOR

HALIM HOURANI : OBSERVER

BEIRUT, LEBANON

Latitude : 33° 54' 22" N.

Longitude : 2^h 21^m 52^s . 7 E.

December 1960

Jourdy Press — Tel. : 43010

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WEATHER BUREAU

DECEMBER 1960

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. †...				Thermometer Degrees Centigrade					
	8:30	41:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	66.0	65.7	66.3	66.0	21.5	16.3	18.5	20.7	18.5	19.2
2	66.8	65.5	66.2	66.2	22.6	16.6	19.0	19.5	17.5	18.7
3	65.6	63.9	62.8	64.1	24.1	17.9	18.5	21.5	18.1	19.4
4	61.7	61.0	61.8	61.5	23.1	17.7	18.3	22.6	19.5	20.1
5	63.2	62.4	62.3	62.6	22.9	17.5	18.7	20.4	17.5	18.9
6	62.5	62.3	63.8	62.9	20.1	15.5	18.0	17.0	16.5	17.2
7	65.1	64.1	64.5	64.6	21.4	15.6	17.0	19.0	18.0	18.0
8	65.5	64.4	65.1	65.0	20.5	16.6	17.5	19.4	17.5	18.1
9	66.4	65.4	65.1	65.6	20.5	16.0	17.7	19.8	18.0	18.5
10	65.9	64.3	64.4	64.9	20.9	16.9	07.5	20.0	18.0	18.5
11	63.4	62.7	63.0	63.0	21.6	18.3	18.8	21.0	19.0	19.6
12	64.2	61.6	61.8	62.5	20.2	16.8	19.8	18.0	18.0	18.6
13	60.6	61.4	61.6	61.2	22.0	17.6	19.0	21.3	20.5	20.3
14	64.5	63.9	64.8	64.4	21.7	16.9	19.7	20.9	19.6	20.1
15	65.9	64.9	65.1	65.3	20.9	16.1	18.1	20.0	19.0	19.0
16	65.8	64.9	64.9	65.2	19.7	15.1	17.2	19.3	17.5	18.0
17	64.6	63.6	63.8	64.0	19.7	15.0	16.7	19.5	17.1	17.8
18	64.6	63.0	62.9	63.5	21.2	15.6	17.5	17.5	16.5	17.2
19	63.8	62.6	63.0	63.1	19.1	14.5	16.4	18.6	17.0	17.3
20	63.0	62.6	63.4	63.0	19.2	15.4	15.9	18.3	18.5	17.6
21	64.7	63.8	63.7	64.1	19.5	15.1	16.4	18.7	17.0	17.4
22	63.6	61.3	61.1	62.0	20.1	15.6	16.4	19.5	17.5	17.8
23	60.9	59.6	60.1	60.2	21.6	15.0	17.0	19.2	17.0	17.7
24	59.7	58.8	59.8	59.4	20.1	16.2	18.0	19.0	17.0	18.0
25	60.5	61.8	63.2	61.8	21.5	14.9	19.0	18.5	16.0	17.8
26	64.2	63.9	64.1	64.1	20.9	18.6	18.5	19.2	19.0	18.9
27	61.9	62.6	60.8	61.8	23.0	20.1	20.1	20.3	20.6	20.3
28	56.9	57.0	60.0	58.0	22.0	14.0	20.8	21.3	16.0	19.4
29	62.5	62.1	63.0	62.5	20.4	15.5	16.7	18.6	16.5	17.3
30	63.5	62.0	61.2	62.2	20.7	15.3	17.2	18.4	17.5	17.7
31	60.9	60.0	60.5	60.5	19.7	14.4	17.5	19.0	17.5	18.0
	63.10	62.68	63.03	63.07	21.04	16.21	17.98	19.55	17.85	18.43

Barometer, range 766.8 mm — 756.9 mm
» » 71-yrs. average 763.23 mm.
Thermometer, range 24.1 °C — 14,0 °C
« » 82-yrs. average 15.6 °C
Rain. total for month 51.01 mm
» » 82-yrs. average for month 188.0 mm
« » total from Sept. 1st. 305.45 mm
« » 82-yrs. average from Sept. 1st. 375.27 mm

DECEMBER 1960

METEOROLOGICAL REGISTRE

Date	Pressure of Water Vapour Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8 30	14 30	20 30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kmsr	m. m.
1	14.2	16.7	15.2	15.4	67	69	71	69	7.5	159	
2	12.9	15.2	13.0	13.7	59	67	64	63	8.4	21	
3	11.1	12.8	11.0	11.6	51	49	53	51	7.0	42	
4	10.8	18.7	17.3	15.6	50	69	76	65	0.8	63	
5	15.4	17.1	14.9	15.8	72	71	75	73	8.0	79	
6	12.4	15.3	13.8	13.8	60	80	73	71	0.0	39	1.10
7	10.0	13.4	13.7	12.4	51	61	67	60	7.9	41	
8	11.2	15.9	13.0	13.4	55	70	64	63	3.1	56	
9	14.3	15.6	15.0	15.0	71	68	73	71	8.1	41	
10	11.9	15.8	12.7	13.5	58	68	62	63	5.5	11	
11	11.8	16.2	13.8	13.9	54	65	63	61	1.2	14	
12	16.0	16.5	16.5	16.3	69	80	80	76	0.0	124	3.30
13	14.6	16.2	18.7	16.5	67	63	77	69	0.9	53	2.03
14	19.5	17.3	18.5	18.4	85	70	81	79	7.3	29	
15	16.6	16.6	16.7	16.6	80	71	76	76	8.3	187	
16	15.5	16.2	14.5	15.4	80	72	72	75	8.1	24	
17	12.9	12.8	13.3	13.0	68	56	68	64	8.2	84	
18	14.1	14.5	13.1	13.9	70	72	69	70	4.3	14	
19	12.2	11.2	8.9	10.8	65	53	46	55	8.4	146	
20	8.3	12.0	11.5	10.6	46	57	53	52	1.0	117	
21	11.5	11.7	12.7	12.0	61	54	66	60	7.7	151	0.64
22	11.1	12.8	12.1	12.0	59	56	59	58	3.5	47	
23	10.7	16.0	14.8	13.8	55	72	76	68	7.8	35	
24	12.6	14.2	15.3	14.0	61	65	80	69	8.1	34	
25	11.6	14.8	14.7	13.7	53	69	81	68	0.0	92	9.52
26	15.6	16.0	16.7	16.1	73	72	76	74	7.7	93	
27	17.5	19.9	14.9	17.4	75	83	62	73	0.0	105	0.22
28	17.1	19.6	16.9	17.9	70	76	94	80	0.0	354	28.19
29	14.7	17.2	14.8	15.6	77	81	79	79	5.5	111	5.55
30	15.2	15.5	15.9	15.5	77	73	80	77	7.7	66	0.46
31	13.3	14.6	15.9	14.6	66	67	80	71	8.2	39	
	13.44	15.43	14.51	14.46	64.7	67.7	70.8	67.8	5.17	79.71	1.64

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric date from readinge of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M. O. 265.
Rim of Rain Gauge : above groend 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20.30 for the preceding 24 hours.
71 year averages are for period, 1875 - 1943

DECEMBER 1960
METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				Beaufort scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	9st	5cu-st	5ci	6.3	1se	2ne	1ne	light	
2	0	0	0	0.0	1nw	1ne	1ne	,,	
3	5cu	8cu-st	9st	7.3	1ne	1ne	2ne	,,	
4	5cu-st	6cu-st	7cu-st	6.0	2sw	1sw	2sw	,,	Tr. p.m.
5	0	4cu-ci	0	1.3	2s	2sw	1sw	,,	Tr. a.m.
6	10st-cu	10st-cu	3cu	7.7	2sw	0	1sw	light	
7	0	0	5cu	1.7	2sw	2n	1ne	,,	
8	10ci	10st	0	6.7	2s	1w	2sw	,,	
9	1cu	0	1ci	0.7	1s	2ne	1ne	,,	
10	10ci	10ci	3ci	7.7	1e	1se	1se	,,	
11	5st-ci	10st	7ci-st	7.3	1ne	1ne	1ne	light	
12	10st	10st	0	6.7	5n	4ne	0	,,	
13	10ci	10st	5st	8.3	0	3sw	1sw	,,	
14	5cu-st	0	0	1.7	1e	3ne	1ne	,,	
15	0	0	0	0.0	2ne	4ne	1ne	,,	D; a.m.
16	0	0	0	0.0	1nw	2nw	1ne	light	D; a.m.
17	0	2ci	0	0.7	1e	1ne	1ne	,,	D; a.m.
18	5ci	9st	0	4.7	1sw	0	0	calm	D; a.m.
19	0	0	0	0.0	1s	4ne	1ne	light	
20	9cu-st	10ci-st	10cu-st	9.7	2s	2nw	2nw	,,	
21	3ci-st	0	0	1.0	2e	3ne	1ne	light	
22	9ci	10ci	7ci	8.7	1e	3ne	1ne	,,	
23	3ci	0	0	1.0	2sw	1sw	1sw	,,	
24	0	0	10st-ci	3.3	1nw	1ne	1ne	,,	
25	10st	10st-ni	10cu-ni	10.0	1sw	1sw	1sw	,,	
26	0	0	10cu-st	3.3	2ne	1ne	1ne	light	Tr; a.m.
27	10st	10st	10st	10.0	2sw	3ne	1ne	,,	
28	10st	10st	10st-ni	10.0	2e	5sw	3sw	slight	
29	4cu-st	9st	3cu-st	5 3	3s	3sw	1sw	,,	
30	8st	0	0	2.7	3sw	2ne	1ne	light	
31	0	2ci	9st-ci	3.7	1sw	1nw	1sw	,,	Tr; p.m.
				4.63					

Abbreviation : G = gale ; H = haze ; M = mist ; T = Thunderstorm ; D = dew
W = strong wind ; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	1	4	6	1	6	9	0	3	1	31
14:30	1	16	0	1	0	7	1	3	2	31
20:30	0	17	0	1	0	10	0	1	2	31
Total	2	37	6	3	6	26	1	7	5	93

Number of days with rain 9, fog 0, Thunderstorms 0, gale 0

71-yrs. average number of days with rain during month 13.4